

WHAT IS CLAIMED IS:

- 1) An electro-mechanical system and device to drive battery charging generators or alternators in electrically powered vehicles.
- 2) A system and device per claim 1, utilizing a power spring to drive a main gear, main friction wheel, main pulley, main sprocket or main wheel.
- 3) A system and device per claim 1, utilizing a power transmission powered by a power spring driven main gear, main friction wheel, main pulley, main sprocket or main wheel.
- 4) A system and device per claim 1 and 2, utilizing a power spring tension.
- 5) A system and device per claim 1, utilizing an electric motor with speed reducer to wind the power spring.
- 6) A system and device per claim 1, utilizing a ratchet wheel and ratchet pawl or other suitable device to prevent the power spring from unwinding during the winding operation and to hold the inner end fast while the outer end turns the main gear, main friction wheel, main pulley, main sprocket or main wheel.
- 7) A system and device per claim 1, utilizing an electro-magnetic brake or other device to stop the main gear, main friction wheel, main pulley, main sprocket or main wheel during the winding of the power spring.
- 8) A system and device per claim 1, utilizing a switch to start and control the power spring winding motor with speed reducer.